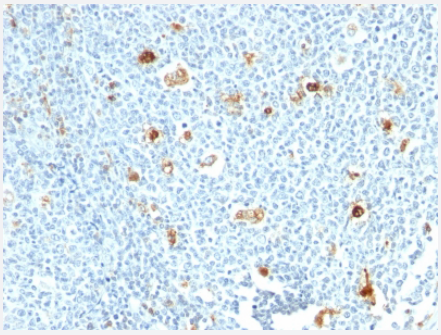
Calprotectin monoclonal antibody, clone CPT/1028

Catalog # MAB14435 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with Calprotectin monoclonal antibody, clone CPT/1028 (Cat # MAB14435).

Specification

Product Description	Mouse monoclonal antibody raised against human calprotectin.
Immunogen	Recombinant protein corresponding to human calprotectin.
Host	Mouse
Theoretical MW (kDa)	14
Reactivity	Human
Specificity	Recognizes the L1 or calprotectin molecule, an intra-cytoplasmic antigen comprising of a 12kDa alp ha chain and a 14kDa beta chain. This antibody reacts with neutrophils, monocytes, macrophages, a nd squamous mucosal epithelia and is important for identifying macrophages in tissue sections.
Form	Liquid
Purification	Polyethylene Glycol (PEG) precipitation
Isotype	IgM, kappa

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Recommend Usage	Flow Cytometry (0.5-1 ug/million cells in 0.1 mL) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 1 mM PBS (0.05% BSA and 0.05% azide).
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with Calprotectin monoclonal antibody, clone CPT/1028 (Cat # MAB14435).

- Immunofluorescence

- Flow Cytometry

Gene Info — S100A8

Entrez GeneID	6279
Protein Accession#	P05109; P06702
Gene Name	S100A8
Gene Alias	60B8AG, CAGA, CFAG, CGLA, CP-10, L1Ag, MA387, MIF, MRP8, NIF, P8
Gene Description	S100 calcium binding protein A8
Omim ID	123885
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-han d calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide ra nge of cells, and involved in the regulation of a number of cellular processes such as cell cycle pro gression and differentiation. S100 genes include at least 13 members which are located as a clus ter on chromosome 1q21. This protein may function in the inhibition of casein kinase and as a cyt okine. Altered expression of this protein is associated with the disease cystic fibrosis. [provided b y RefSeq

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Other Designations	OTTHUMP00000015329|OTTHUMP00000015330|S100 calcium-binding protein A8|S100 calcium-binding protein A8 (calgranulin A)|calgranulin A|cystic fibrosis antigen

Gene Info — S100A9

Entrez GeneID	6280
Protein Accession#	P05109; P06702
Gene Name	S100A9
Gene Alias	60B8AG, CAGB, CFAG, CGLB, L1AG, LIAG, MAC387, MIF, MRP14, NIF, P14
Gene Description	S100 calcium binding protein A9
Omim ID	123886
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in the inhibition of casein kinase and altered expression of this protein is associated with the disease cystic fibrosis. [provided by RefSeq
Other Designations	OTTHUMP00000015331|S100 calcium-binding protein A9|S100 calcium-binding protein A9 (calgranulin B)|calgranulin B

Publication Reference

- Expression of S100 proteins in normal human tissues and common cancers using tissue microarrays: S100A6, S100A8, S100A9 and S100A11 are all overexpressed in common cancers.

  Cross SS, Hamdy FC, Deloulme JC, Rehman I.

  Histopathology 2005 Mar; 46(3):256.

  Application: IHC-P, Human, Breast carcinoma, Human tissue microarray, Kidney, Ovary adenocarcinoma, Squamous cell carcinoma of the uterine cervix

Disease

- Aggressive Periodontitis
- Dermatitis

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- Dermatitis
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Kidney Calculi
- Kidney Calculi
- Periodontitis

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